

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH2004/000402

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F26B13/10 F26B21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
 IPC 7 F26B B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 299 00 646 U (MEISSNER WOLFGANG ; SCHOTT HEINZ (DE)) 12 May 1999 (1999-05-12) the whole document	1,3,7
Y	US 5 915 304 A (STIEL JUERGEN ALFRED) 29 June 1999 (1999-06-29) the whole document	2,6,8
Y	DE 43 31 496 A (MONFORTS GMBH & CO A) 14 April 1994 (1994-04-14) the whole document	2
Y	DE 43 31 496 A (MONFORTS GMBH & CO A) 14 April 1994 (1994-04-14) the whole document	1,3
Y	EP 0 062 845 A (DAIDO STEEL CO LTD) 20 October 1982 (1982-10-20) figures 4-6	6
Y	EP 0 062 845 A (DAIDO STEEL CO LTD) 20 October 1982 (1982-10-20) figures 4-6	8
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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the international search report

11 October 2004

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax. (+31-70) 340-3016

Authorized officer

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PCT/CH2004/000402

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 31 30 297 A (MOHR MASCHINEN UND APPARATEBAU) 24 February 1983 (1983-02-24) cited in the application the whole document	1,3,5,8
A	DE 20 29 494 A (BRÜCKNER-TROCKENTECHNIK KG) 30 December 1971 (1971-12-30) the whole document	8
A	US 6 073 368 A (FREIBERG HELGE) 13 June 2000 (2000-06-13)	
A	US 4 397 103 A (RUEPP FERDINAND) 9 August 1983 (1983-08-09)	
A	GB 2 096 296 A (BABCOCK TEXTILMASCH) 13 October 1982 (1982-10-13)	
A	GB 2 159 615 A (BABCOCK TEXTILMASCH) 4 December 1985 (1985-12-04)	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CH2004/000402

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 29900646	U	12-05-1999	DE	29900646 U1		12-05-1999
US 5915304	A	29-06-1999	DE	4406844 A1		07-09-1995
			WO	9523701 A1		08-09-1995
			DE	59503429 D1		08-10-1998
			EP	0748283 A1		18-12-1996
			JP	2776990 B2		16-07-1998
			JP	9510408 T		21-10-1997
DE 4331496	A	14-04-1994	DE	4331496 A1		14-04-1994
			CZ	9500889 A3		13-12-1995
			WO	9408188 A1		14-04-1994
			FR	2696362 A1		08-04-1994
			IT	1271500 B		30-05-1997
			JP	8502121 T		05-03-1996
			JP	3412819 B2		03-06-2003
EP 0062845	A	20-10-1982	JP	57166255 A		13-10-1982
			JP	57164937 A		09-10-1982
			DE	3265009 D1		05-09-1985
			EP	0062845 A2		20-10-1982
			US	4406388 A		27-09-1983
DE 3130297	A	24-02-1983	DE	3130297 A1		24-02-1983
DE 2029494	A	30-12-1971	DE	2029494 A1		30-12-1971
US 6073368	A	13-06-2000	DE	19807511 A1		26-08-1999
			CH	693384 A5		15-07-2003
			CN	1226675 A , B		25-08-1999
			HK	1021022 A1		12-12-2003
			IT	MI990284 A1		14-08-2000
			TW	519563 B		01-02-2003
US 4397103	A	09-08-1983		NONE		
GB 2096296	A	13-10-1982	DE	3107463 A1		16-09-1982
			ES	8302278 A1		01-04-1983
			FR	2500921 A1		03-09-1982
			IT	1149519 B		03-12-1986
GB 2159615	A	04-12-1985	DE	3419531 A1		28-11-1985
			FR	2564869 A1		29-11-1985
			IT	1209635 B		30-08-1989

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